Clare G. DeBerry

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EDUCATION

University of Georgia (UGA), College of Engineering, Athens, GA

Masters in Civil and Environmental Engineering   May 2026 (expected graduation)
Bachelor of Science in Civil Engineering   Dec 2024
• Cumulative GPA: 3.44/4.00

Relevant Courses: Natural Resources Engineering, Fluid Mechanics, Open Channel Hydraulics, Coastal Engineering, Natural Infrastructure Design, Civil 3D Design, Advanced Numerical Modeling, Coastal Field Course

EXPERIENCE

Master's Thesis: Coastal Flood Modeling and Resilient Solutions   *Jan 2024 – Present*
Conducted in partnership with Ducks Unlimited through UGA's Natural Infrastructure Graduate Fellowship

• Developed a hydrodynamic model to evaluate how marsh terrace design influences wave attenuation in coastal regions
• Conducted field research in coastal Louisiana to assess existing marsh terrace performance
• Designed a decision-support tool that guides terrace configuration parameters based on target wave reduction

Compound Inundation Team for Resilient Applications   *Jan 2024 – Present*
Graduate research assistant at UGA

• Contributed to ongoing research on riverine and coastal processes within an interdisciplinary engineering and science team
• Aided in the development of practical and robust solutions for complicated flooding problems along the coast

Project Engineer Intern | *SteelFab, Inc., Norcross, GA*   *May 2023 – Aug 2023*
Entry-level estimator and project-manager for the Atlanta office

• Utilized Tekla EPM and Bluebeam to perform material and labor take-offs, providing accurate estimates for steel requirements on both new and existing projects
• Worked with estimating department to prepare erector scopes for subcontractors and develop pricing recaps and proposals

PROJECTS

Coastal Georgia Flood Attenuation Project   *Jan 2024 – May 2024*
Field experience course focused on flooding along Georgia's coast and the benefits of nature-based solutions

• Collaborated with local engineers and community leaders across coastal Georgia to assess flood challenges
• Led design efforts for a team project focused on mitigating flood risks at UGA's Skidaway Institute of Oceanography

Capstone Senior Design Project   *Aug 2023– May 2024*
Collaborated with a multidisciplinary engineering team tasked to design, develop, and present an innovative solution to a client

• Engineered a comprehensive solution to enhance coastline protection at UGA's Marine Institute and reduce flooding
• Created and refined potential design solutions and produced a structural drawing set tailored to client expectations
• Received the top showcase award for Public Community Impact in recognition of outstanding project excellence

INVOLVEMENT

ASBPA Student and New Professionals (SNP) Chapter   *Oct 2025 – Present*
Actively involved in the American Shore and Beach Preservation Association's (ASBPA) SNP chapter, which connects emerging coastal professionals nationwide and fosters future career opportunities

Institute for Resilient Infrastructure Research   *Jan 2024 – Present*
Contributed to research and outreach initiatives regarding sustainable engineering and nature-based infrastructure

Theta Tau Fraternity   *Jan 2022 – Dec 2024*
Engaged in a competitive engineering fraternity which promotes professional development among its members

TECHNOLOGY SCORECARD

Modeling and Analysis: ADCIRC, SMS, HEC-HMS, HEC-RAS, ArcGIS Pro, WMS, MATLAB, Linux, Excel
Design and Project Tools: Civil 3D, AutoCAD, Bluebeam Revu, Tekla EPM
Additional Skills: Coastal and marsh system modeling, flood risk analysis, project management, cost estimating